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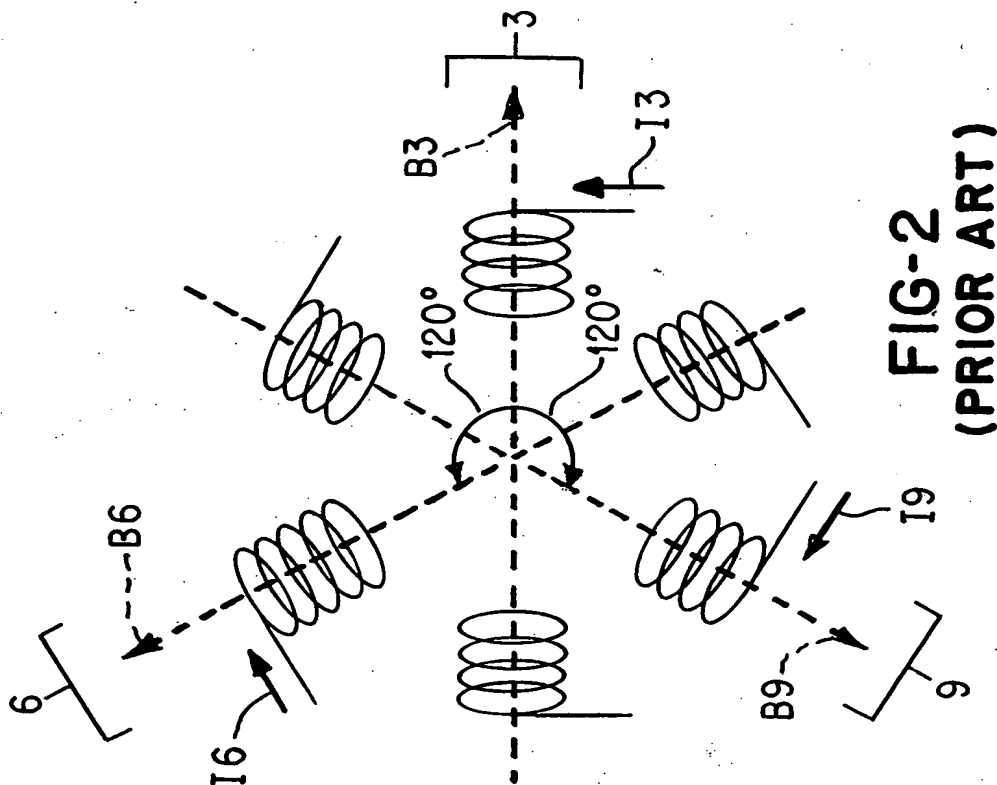
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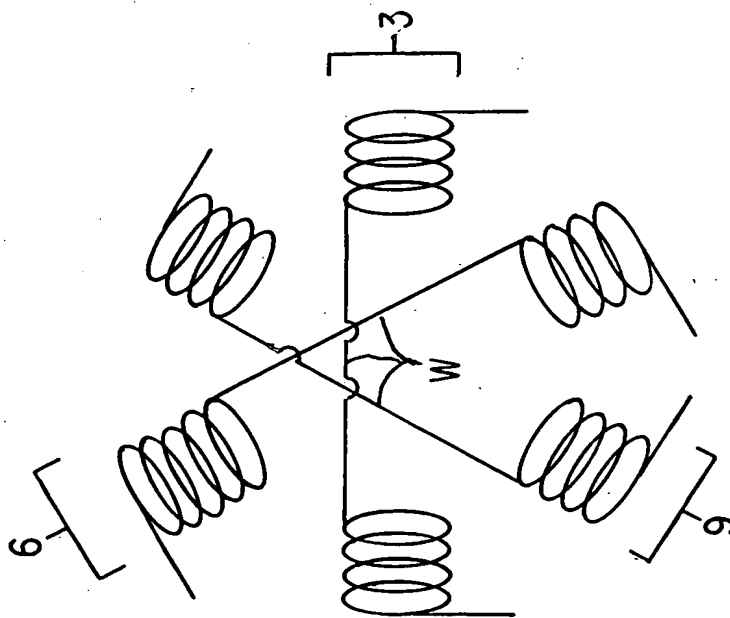


REPLACEMENT DRAWING SHEETS  
IN RESPONSE TO NOTICE TO FILE MISSING PARTS OF 2/04/2004  
Serial No. 10/698,467  
Filed October 31, 2003

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**FIG-2**  
**(PRIOR ART)**



**FIG-1**  
**(PRIOR ART)**

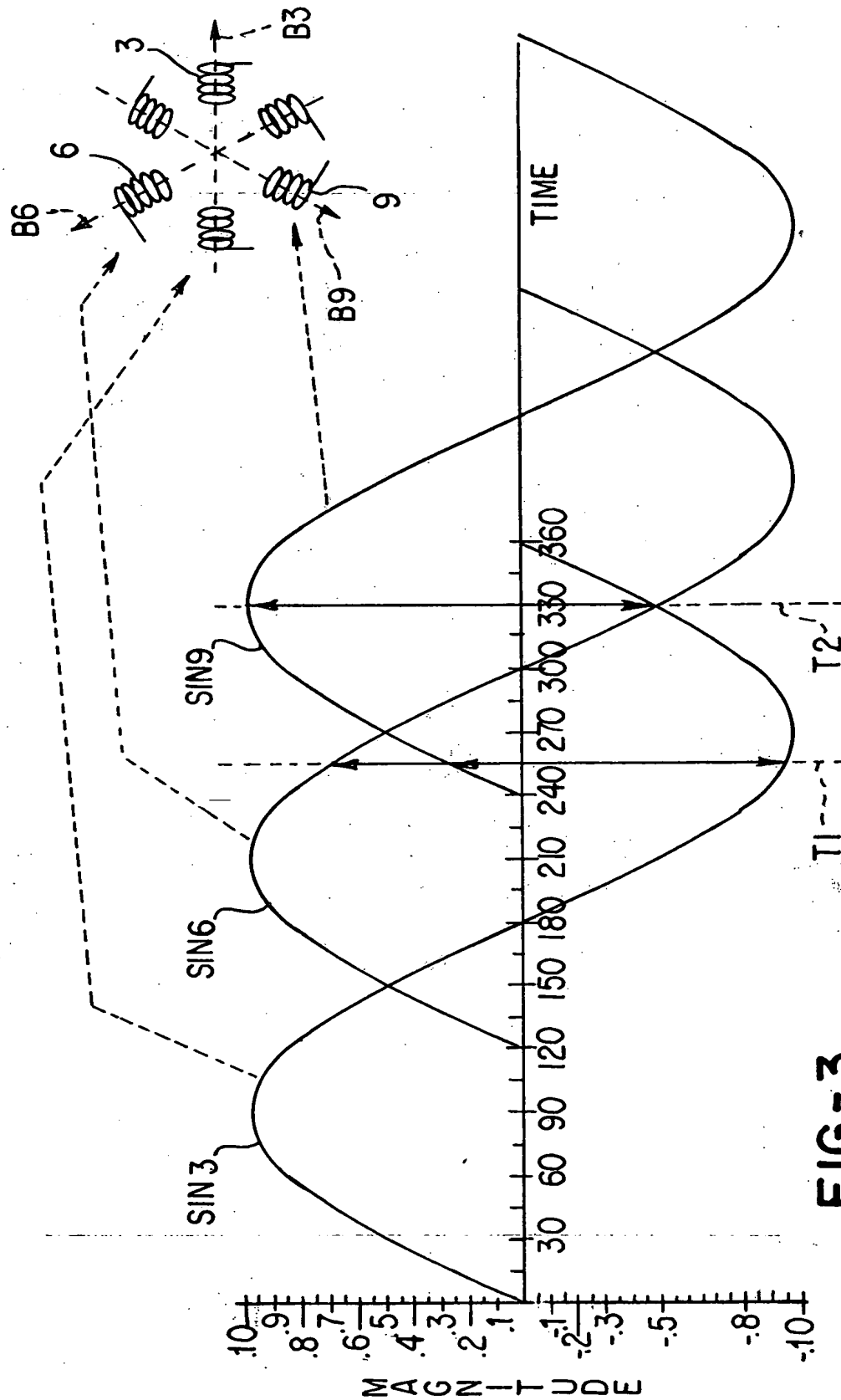
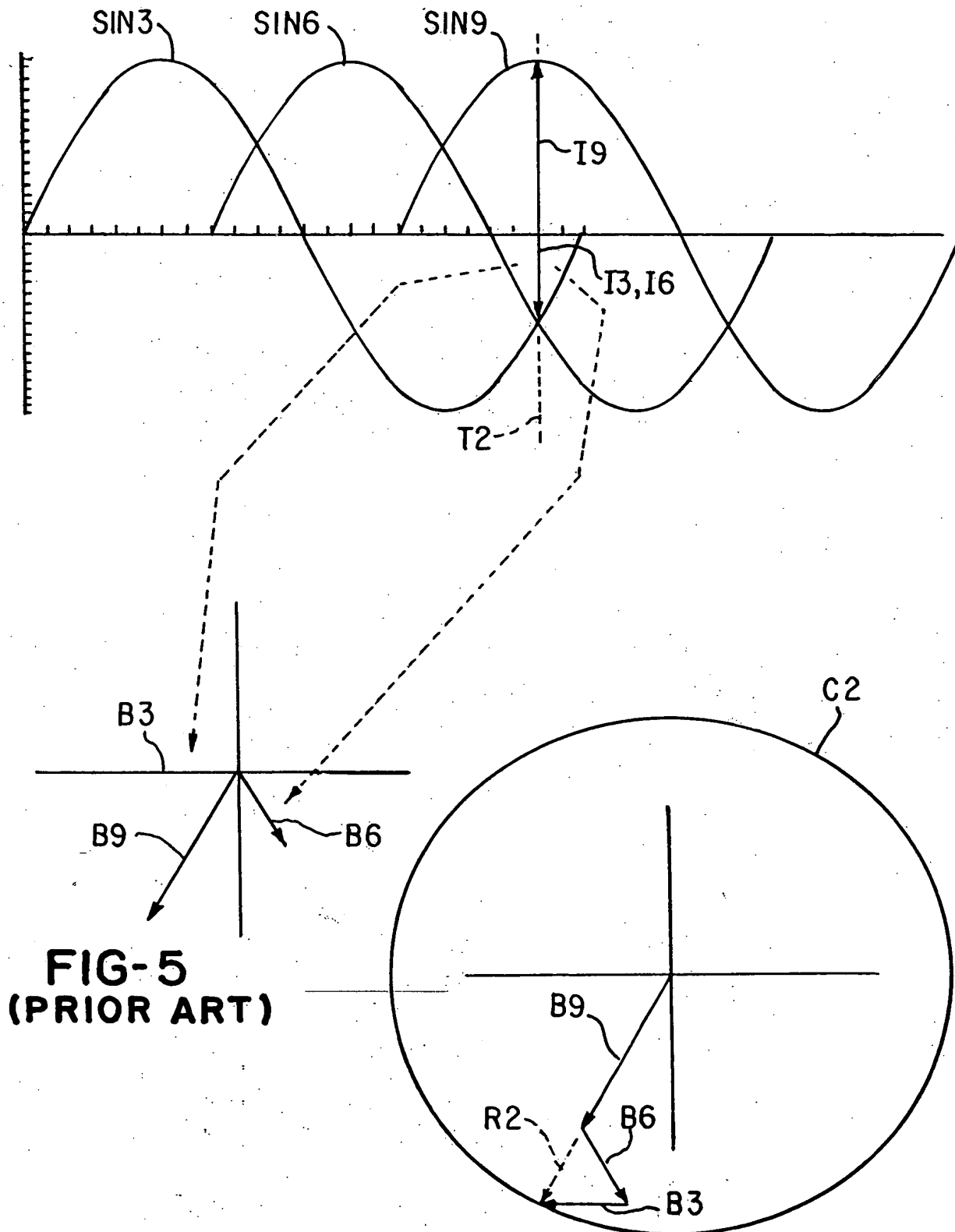
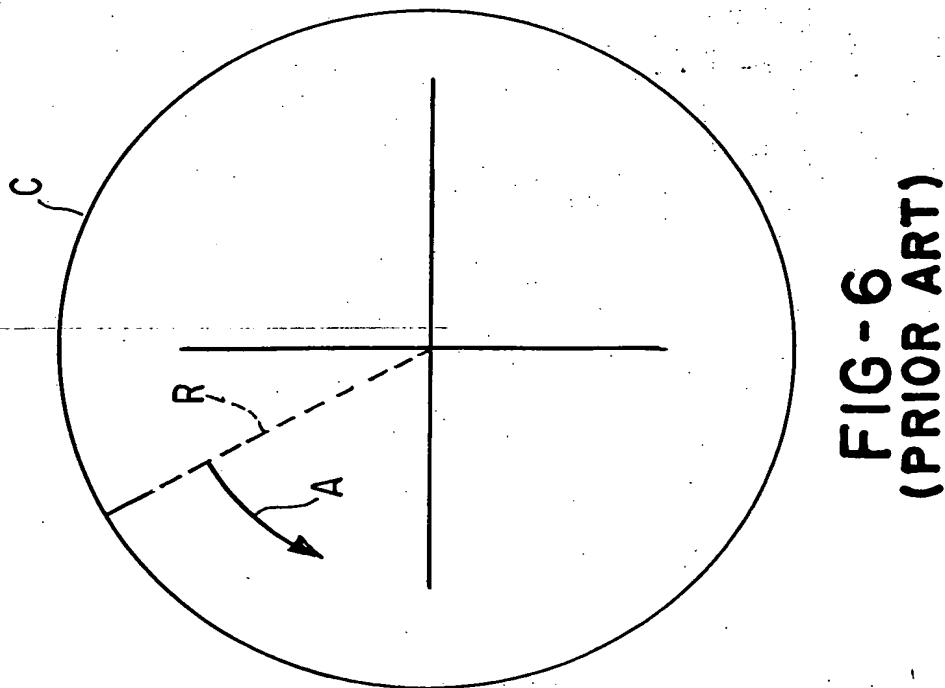
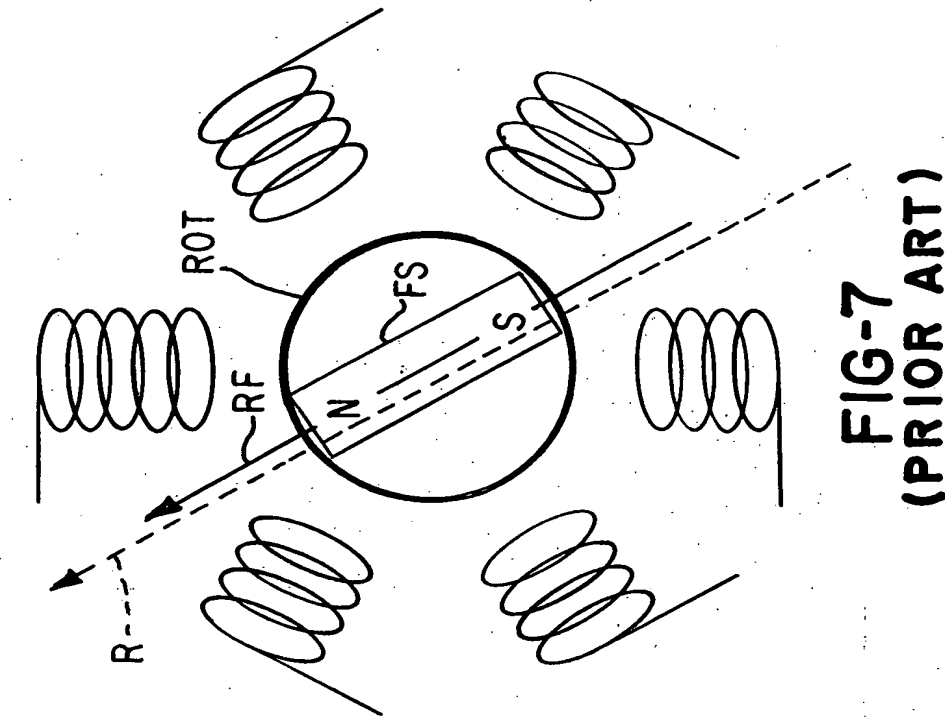


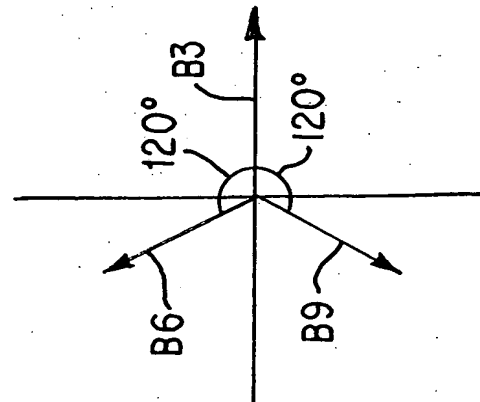
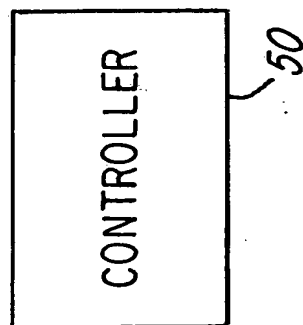
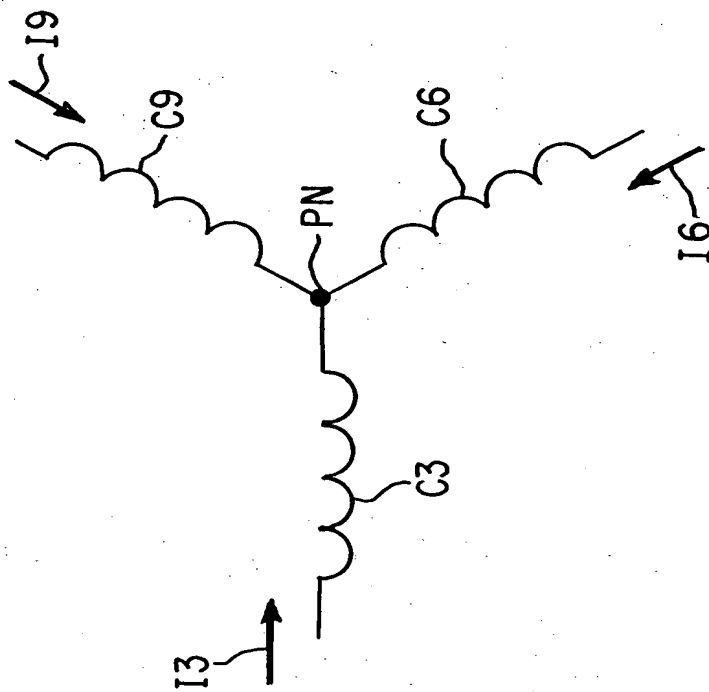
FIG-4 (PRIOR ART) illustrates a signal processing system. At the top, three sine waves are shown, labeled SIN 3, SIN 6, and SIN 9. A vertical dashed line T1 is positioned between SIN 6 and SIN 9. Below the sine waves, a horizontal axis is marked with tick marks. A vertical line segment I6 is shown, with a curved arrow I9 indicating a phase shift. A dashed line I3 is also shown. Below the horizontal axis, a vector diagram is shown with a vertical axis and a horizontal axis. A vector B6 is shown, and a dashed line B3 is shown. A curved arrow B9 indicates a phase shift. A dashed line T1 is also shown. A circular inset labeled C1 shows a vector diagram with a horizontal axis and a vertical axis. A vector B6 is shown, and a dashed line B9 is shown. A curved arrow R1 indicates a phase shift.



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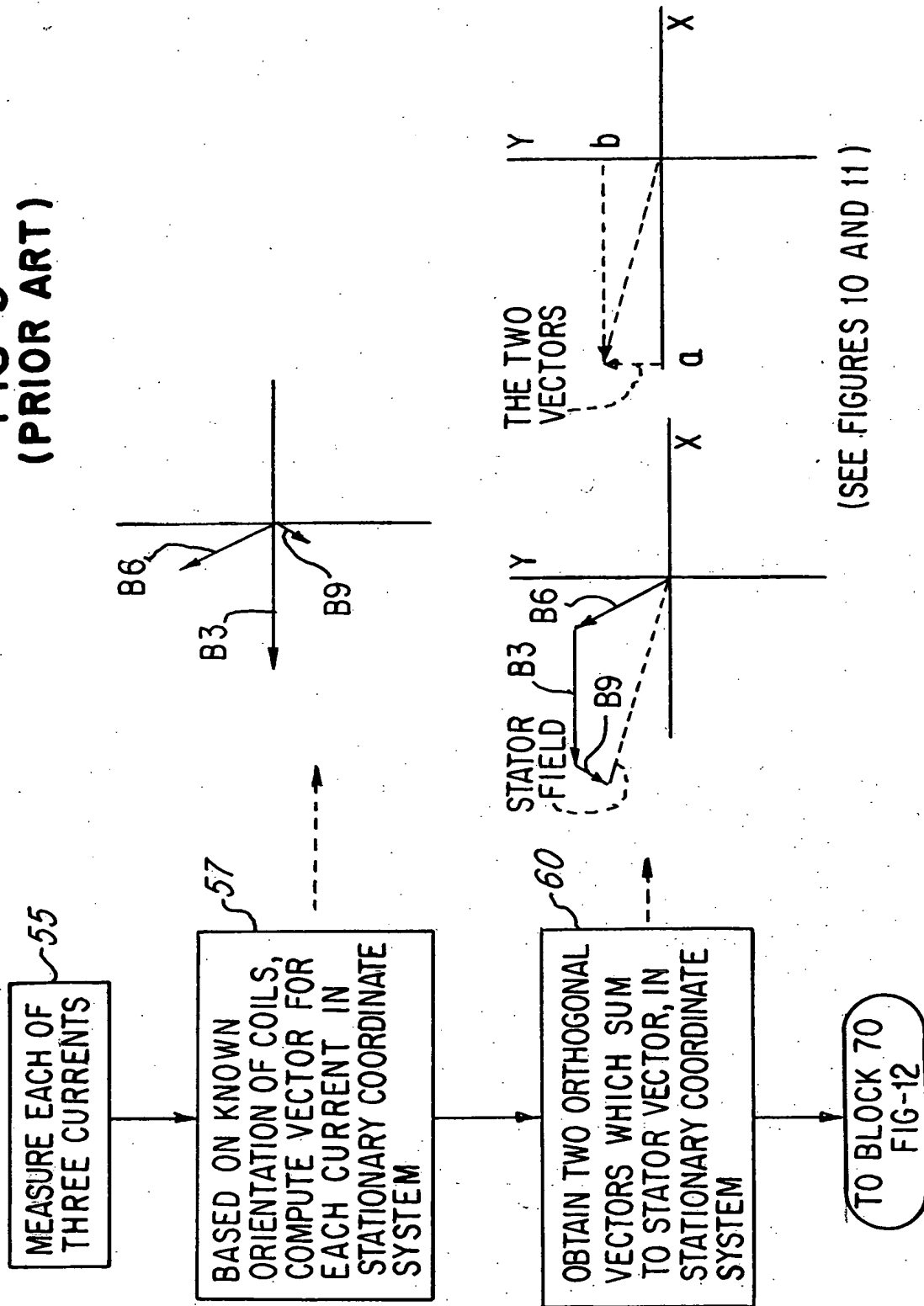
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**FIG-8**  
**(PRIOR ART)**

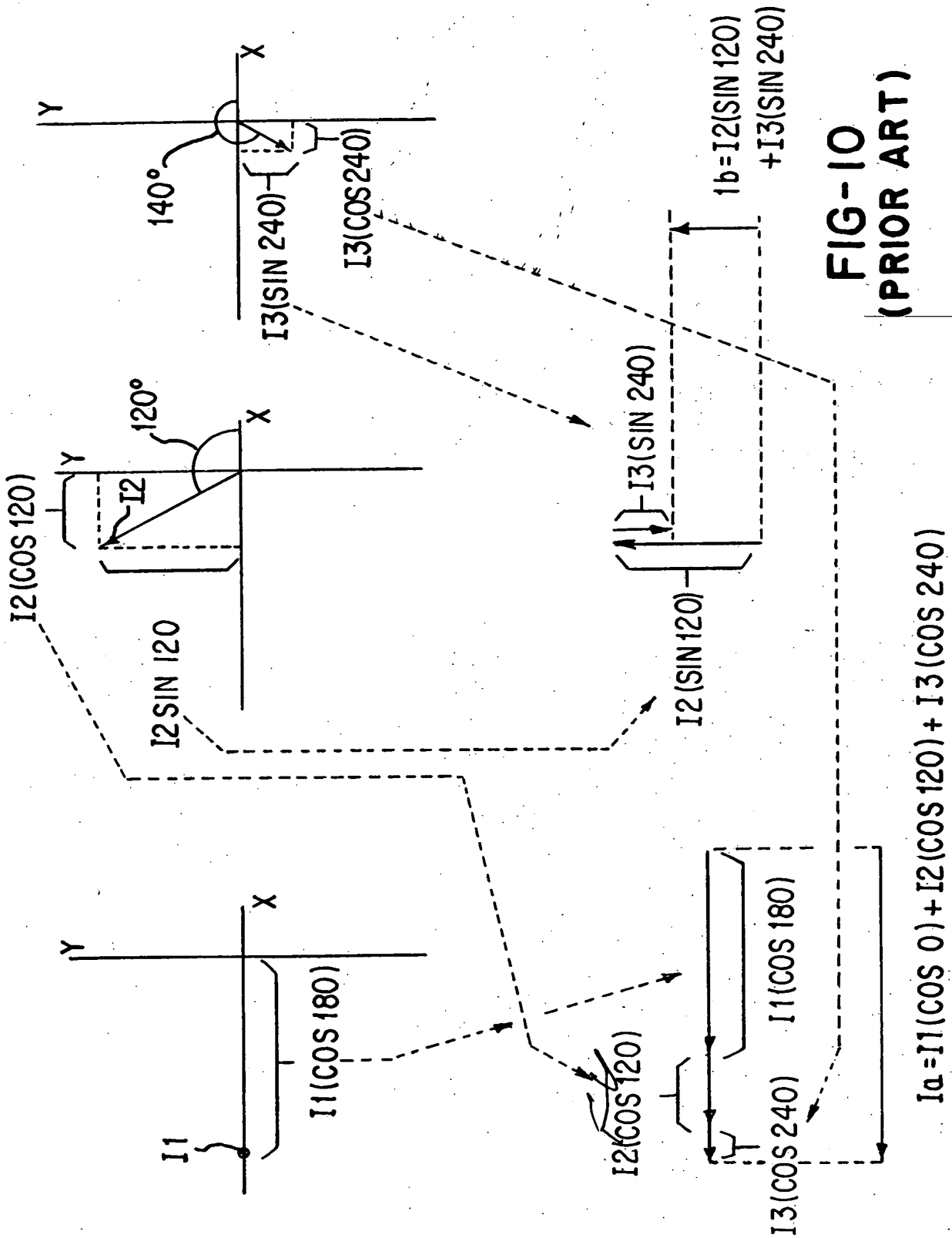
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**FIG-9  
(PRIOR ART)**

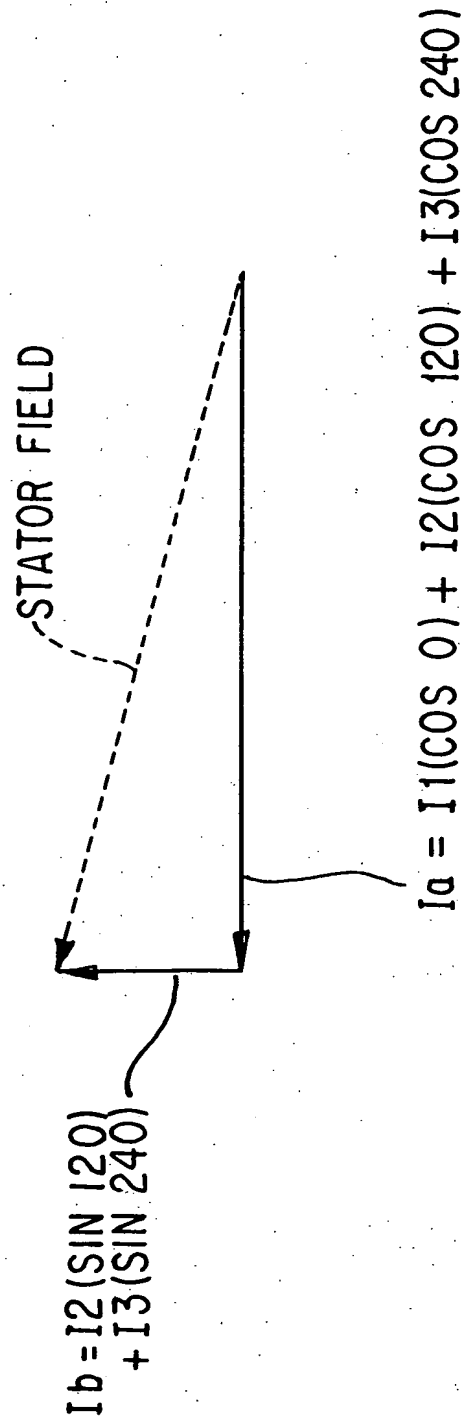




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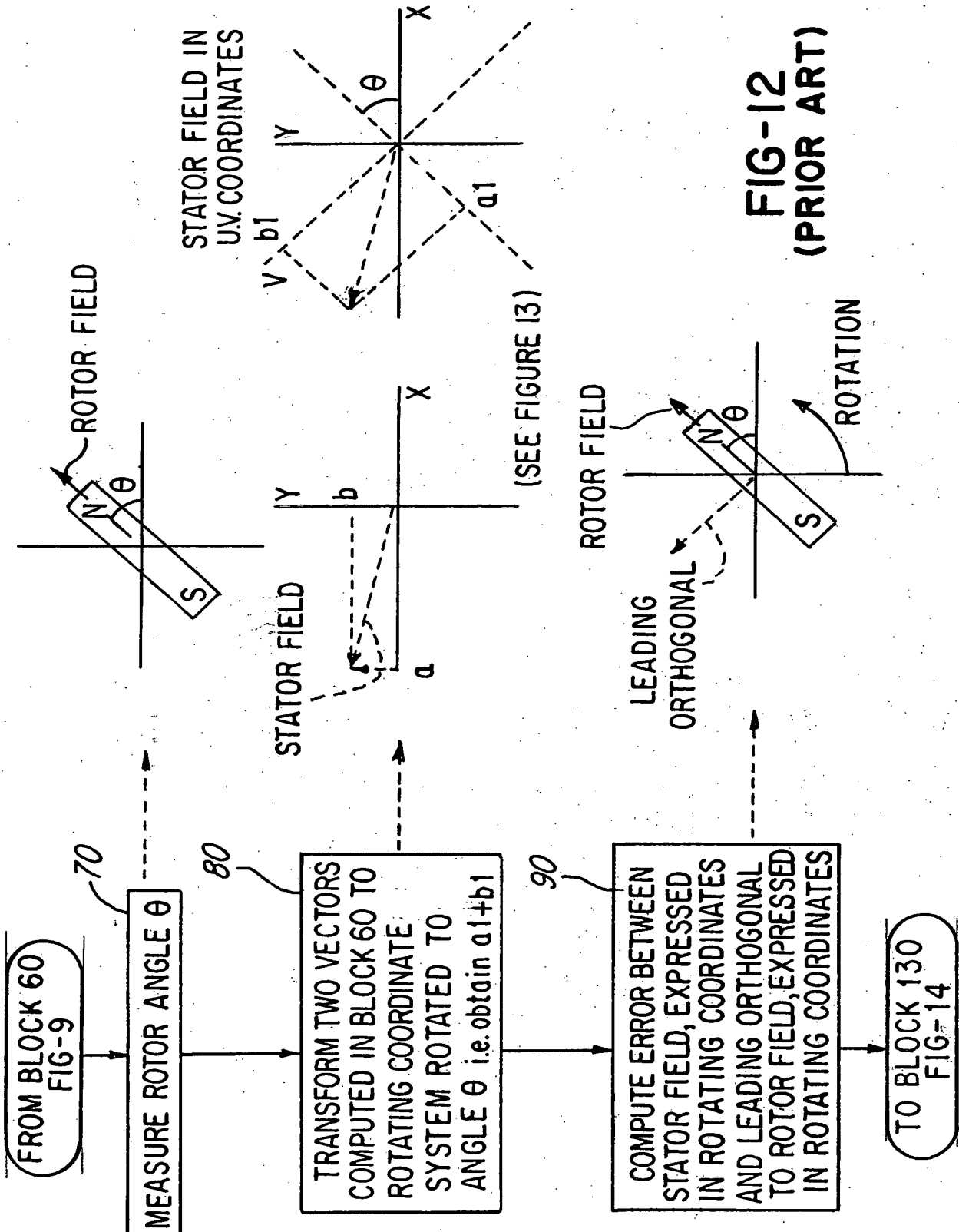


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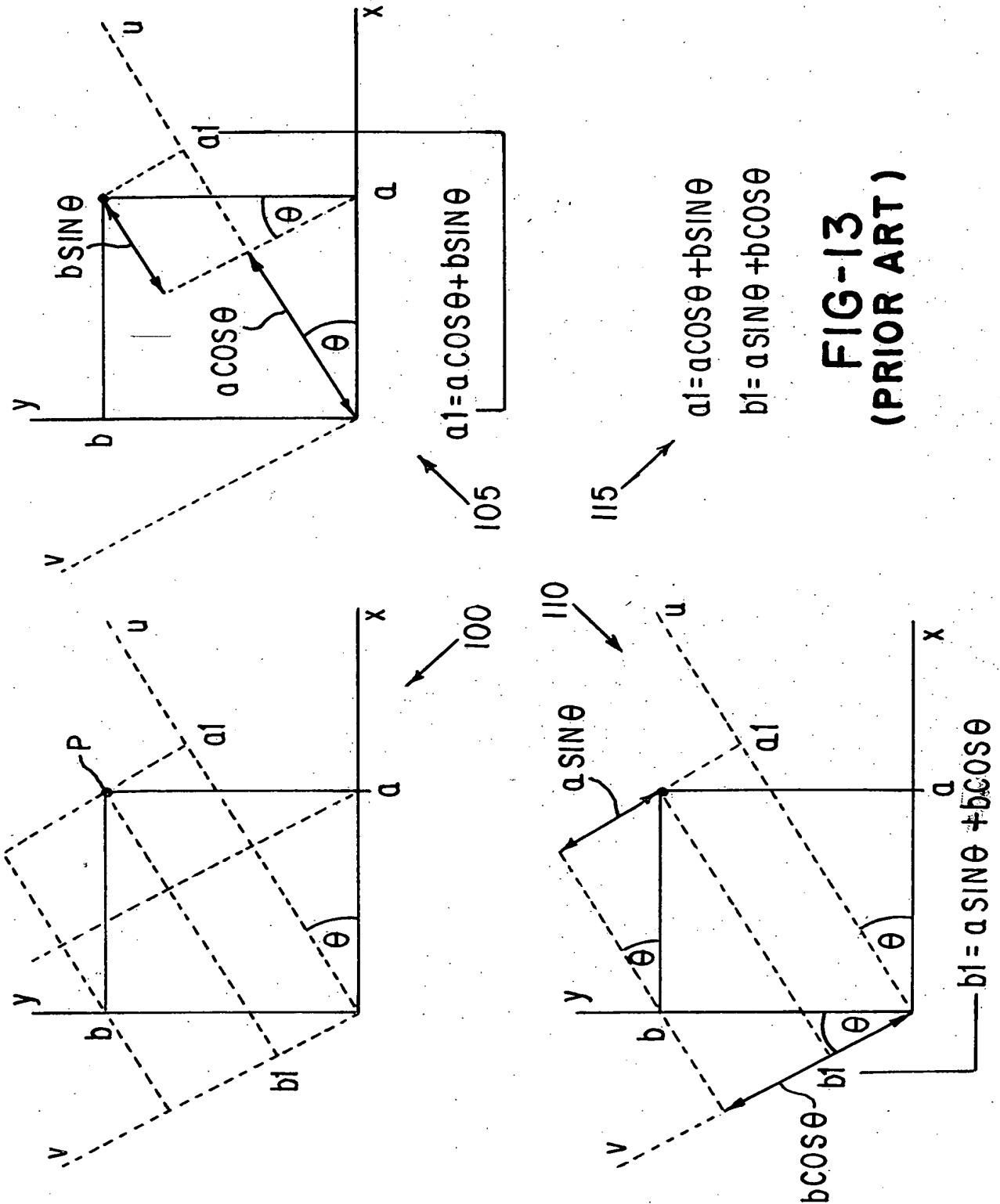


**FIG-11**  
**(PRIOR ART)**

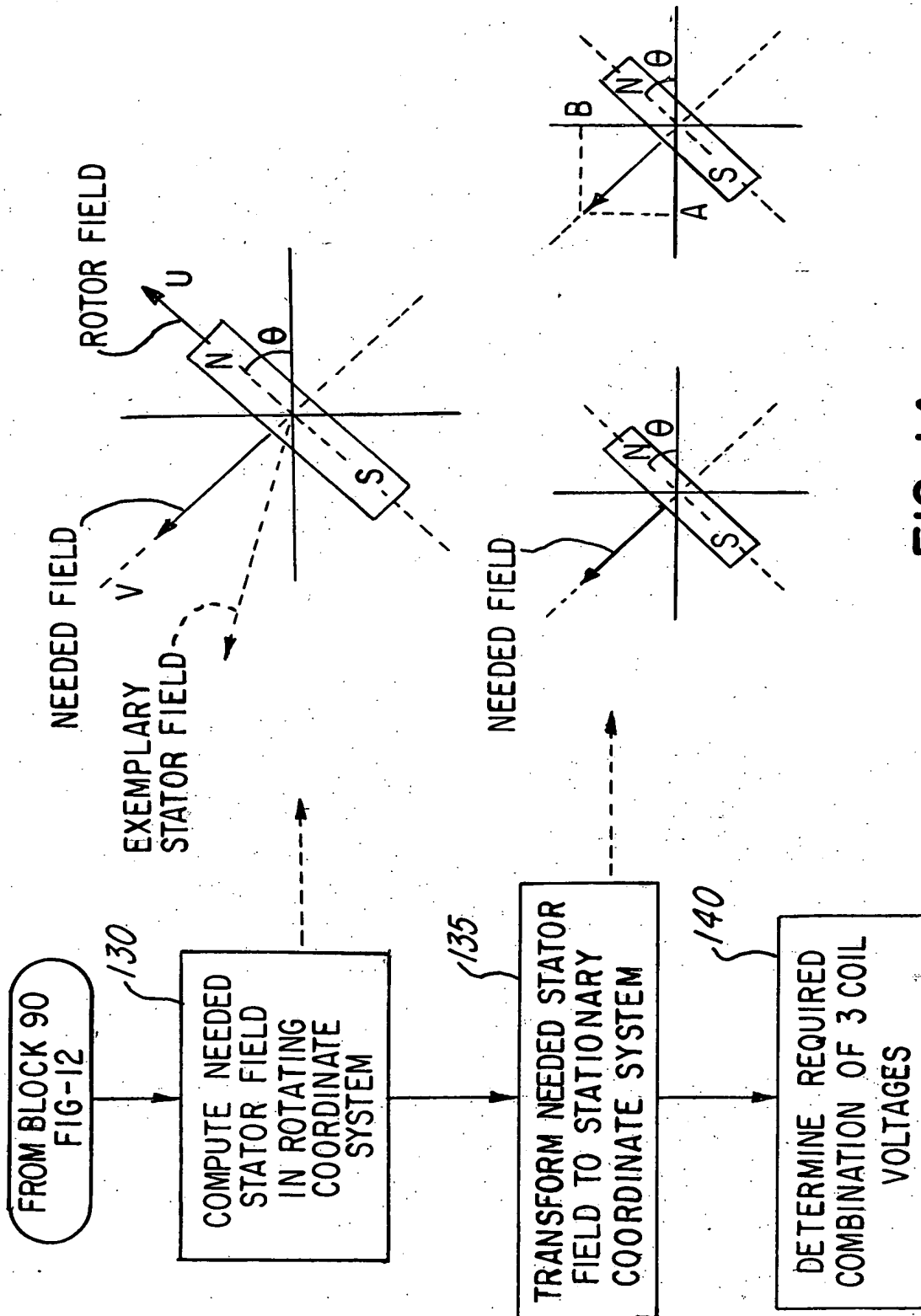
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**FIG-14**  
**(PRIOR ART)**

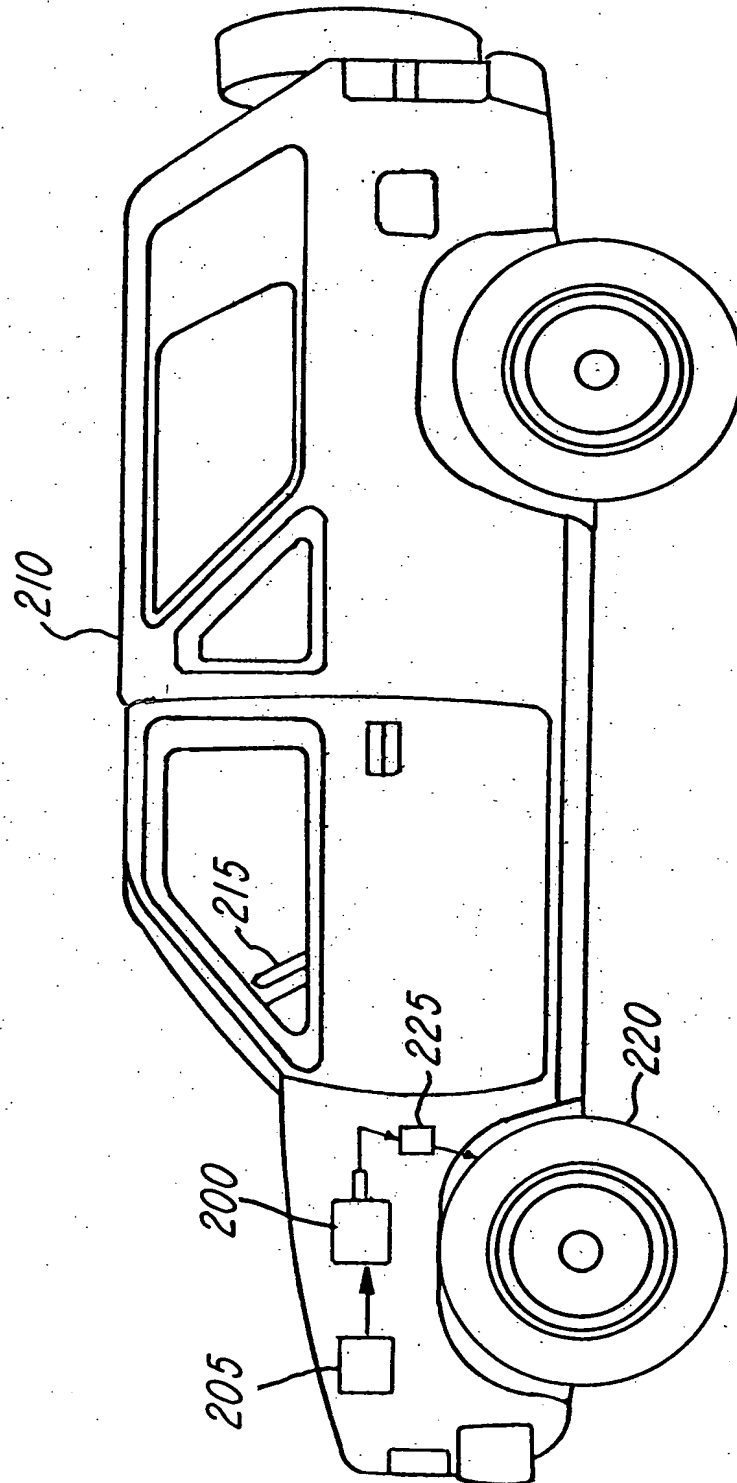


FIG-15

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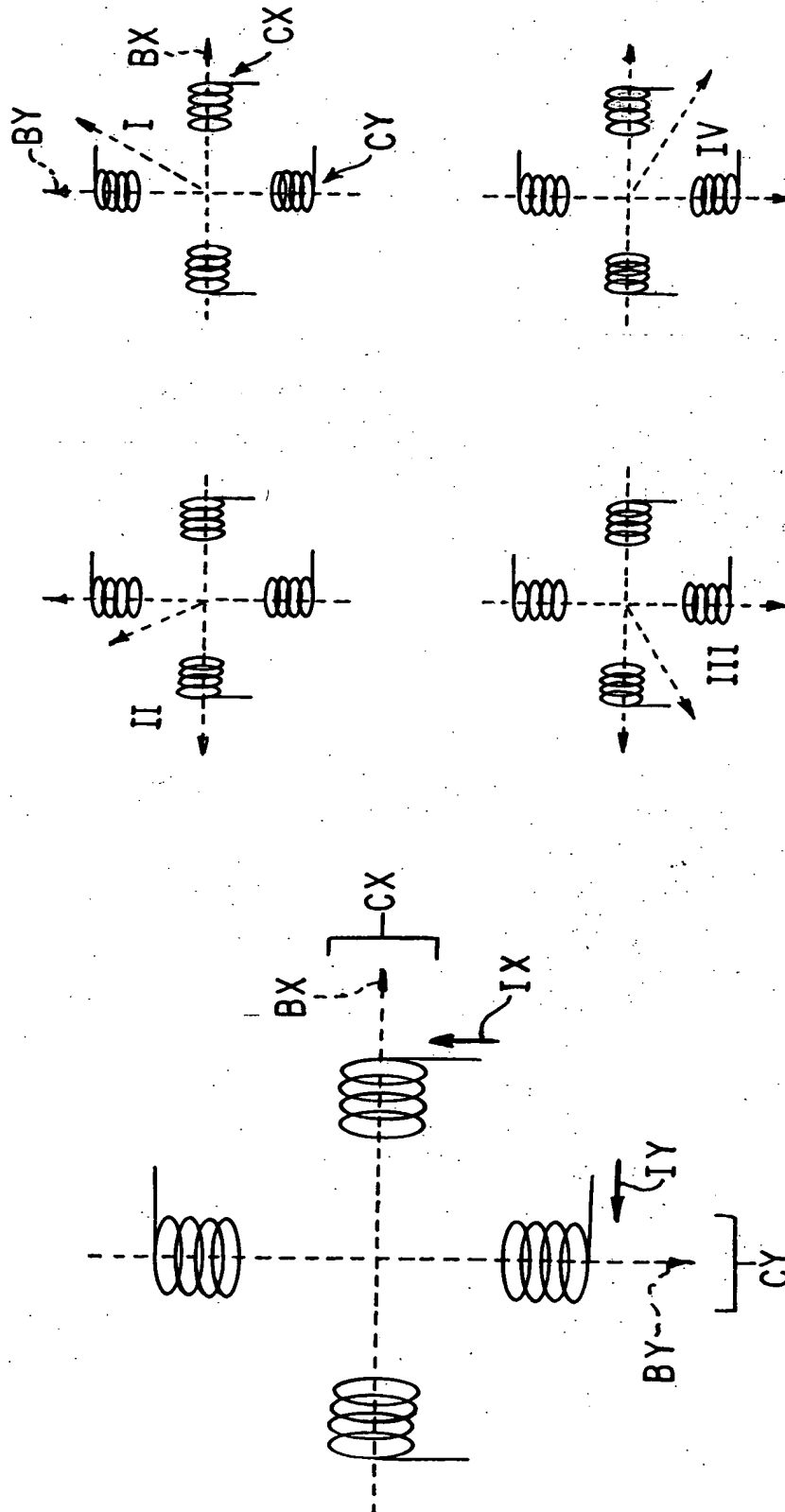


FIG-21

FIG-16

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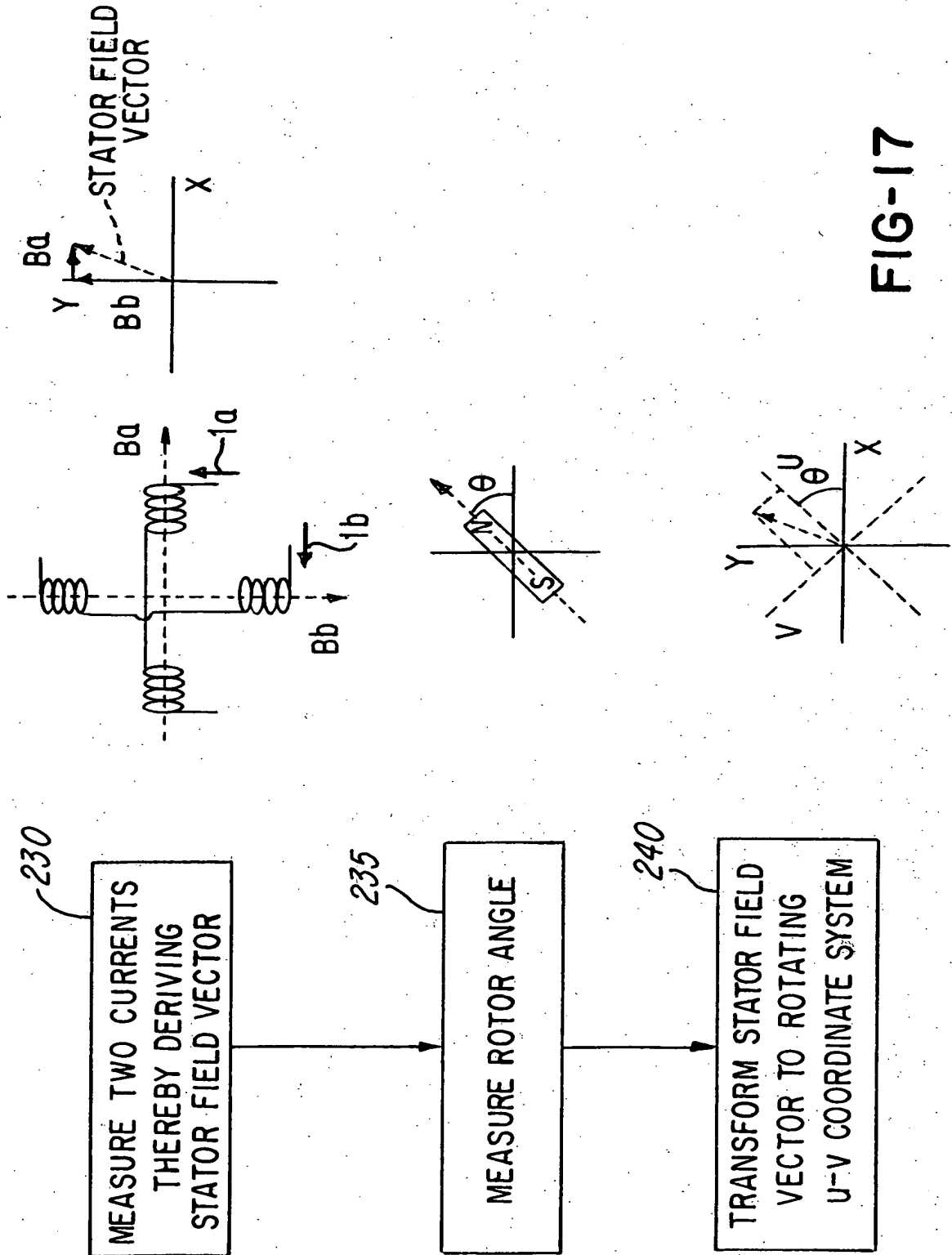


FIG-17



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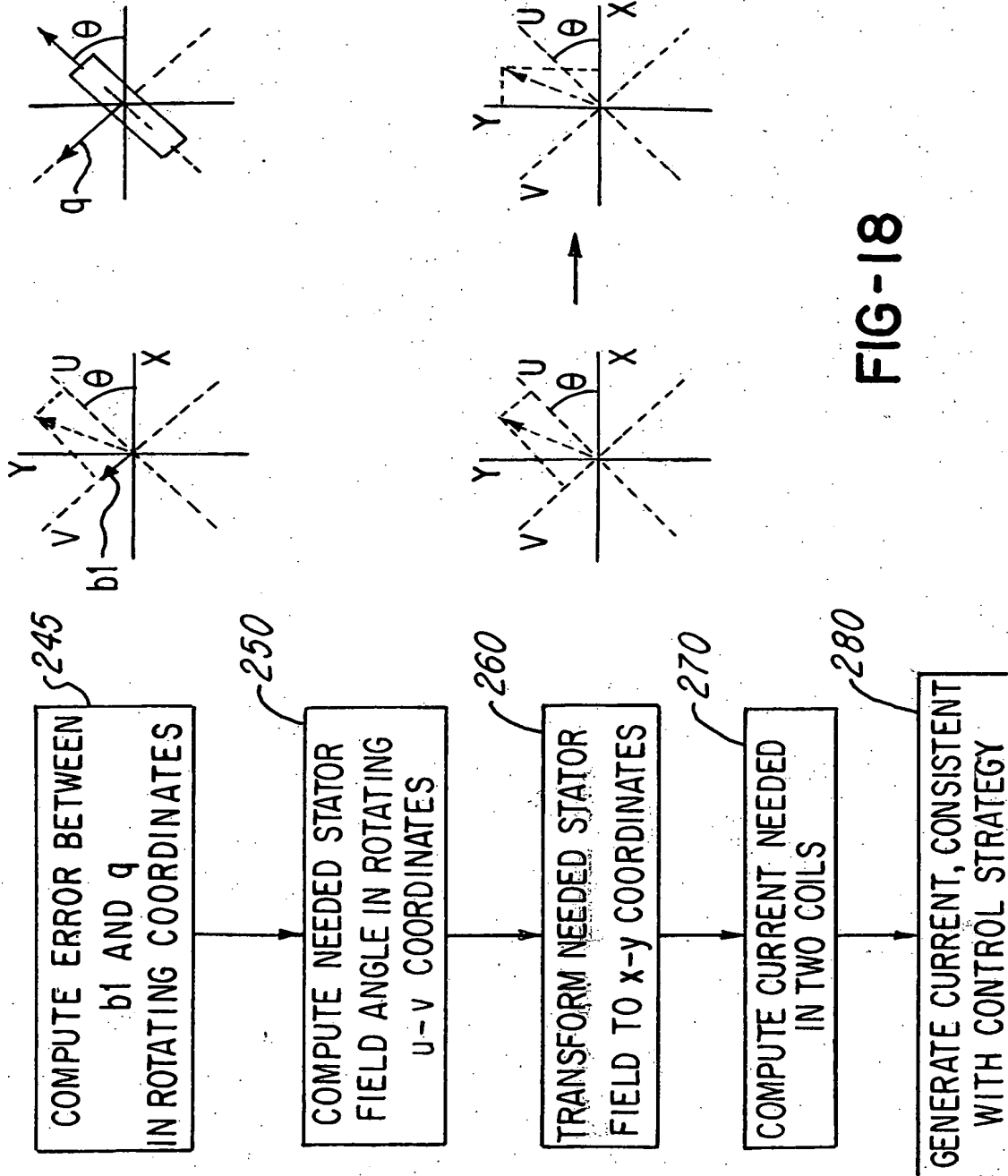
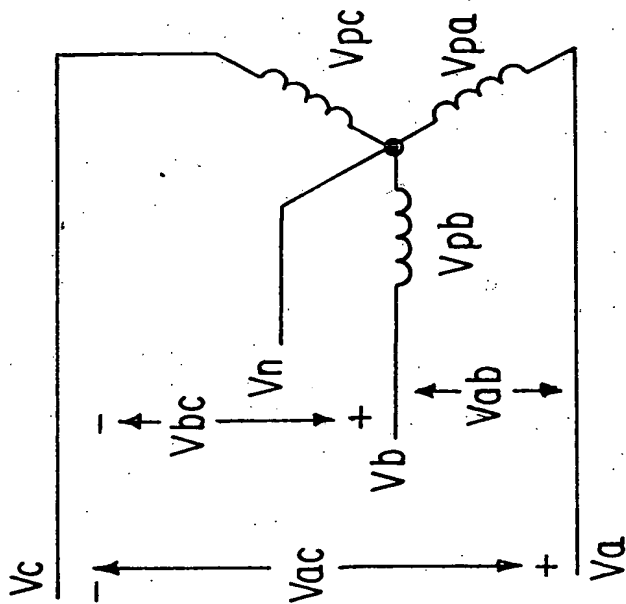


FIG-18

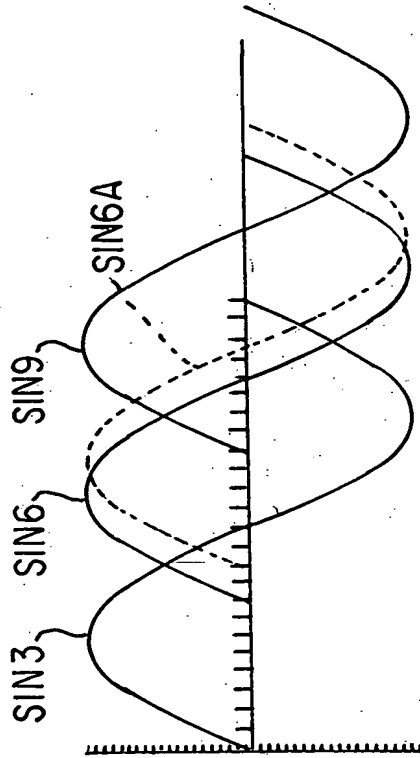
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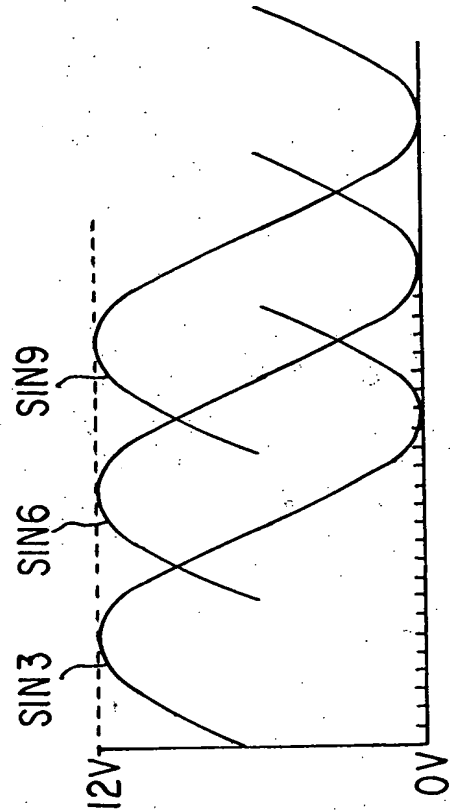
$$|V_L| = |V_{ab}| = |V_{bc}| = |V_{ca}| = \sqrt{3} |V_p|$$

$$\text{TOTAL POWER} = \sqrt{3} |V_{LINE}| |I_p|$$

**FIG-20**  
(PRIOR ART)



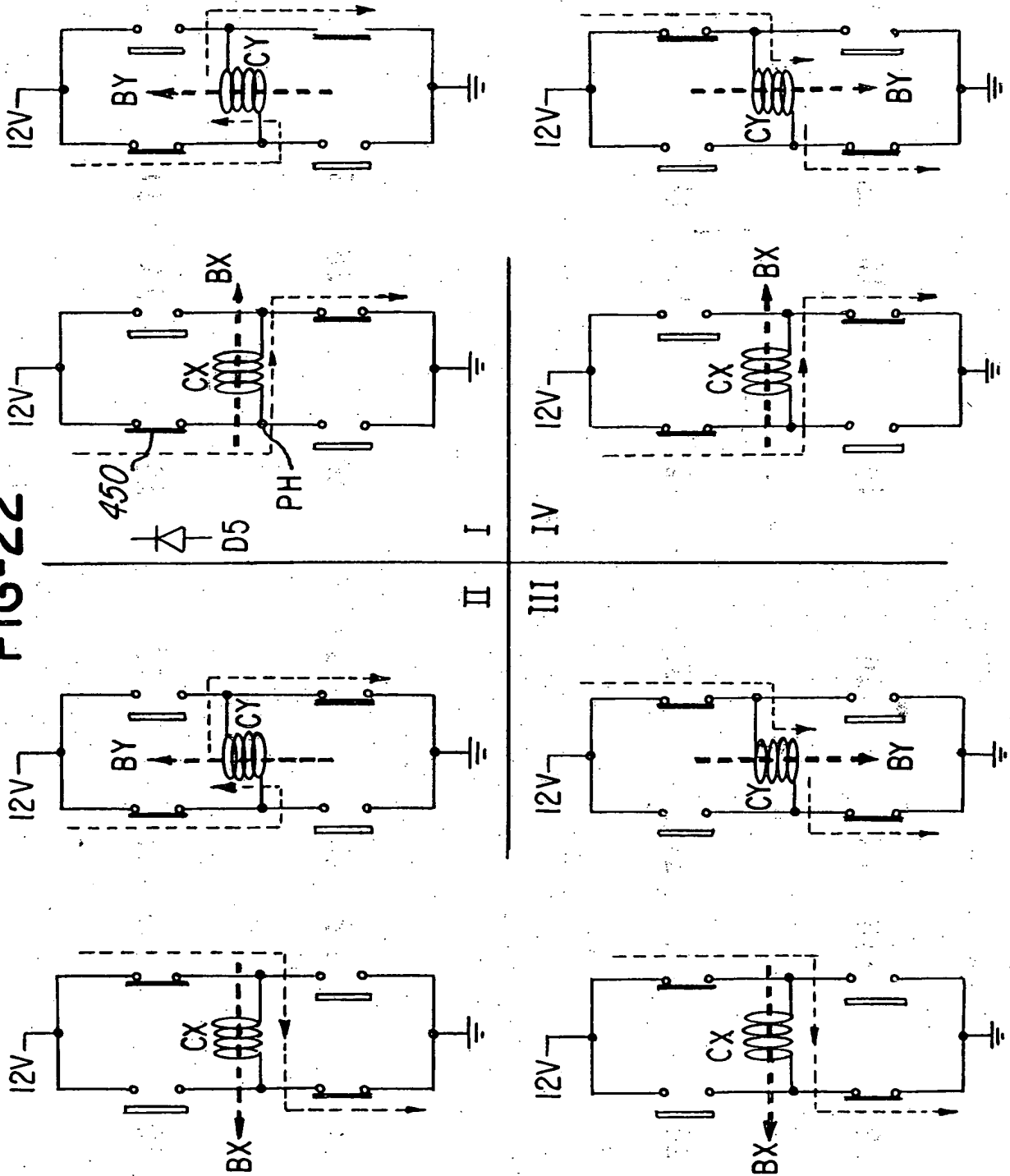
**FIG-34**



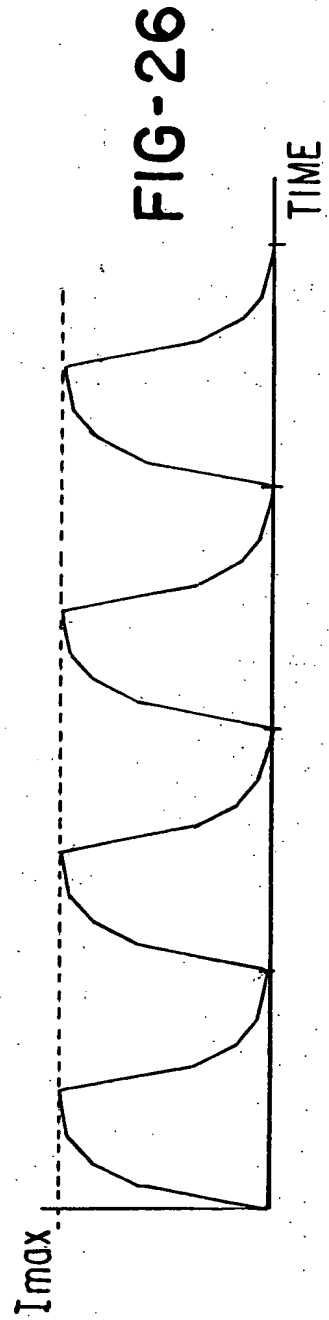
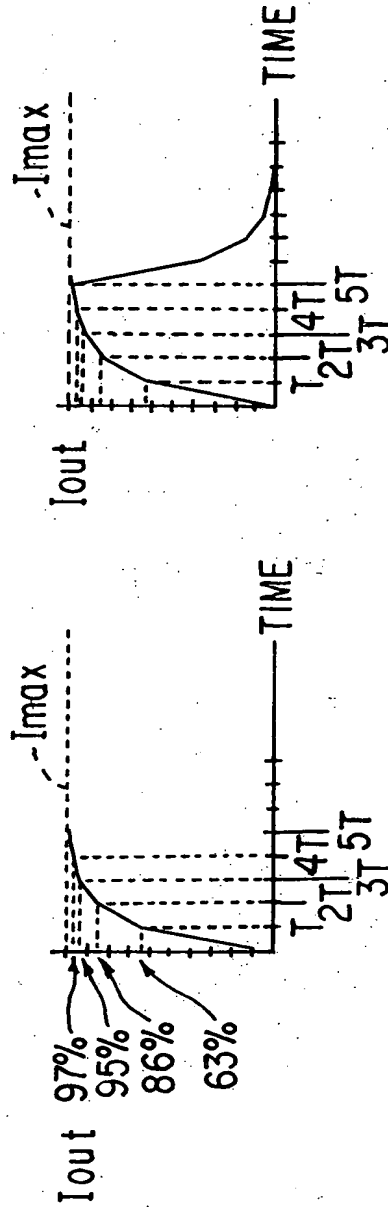
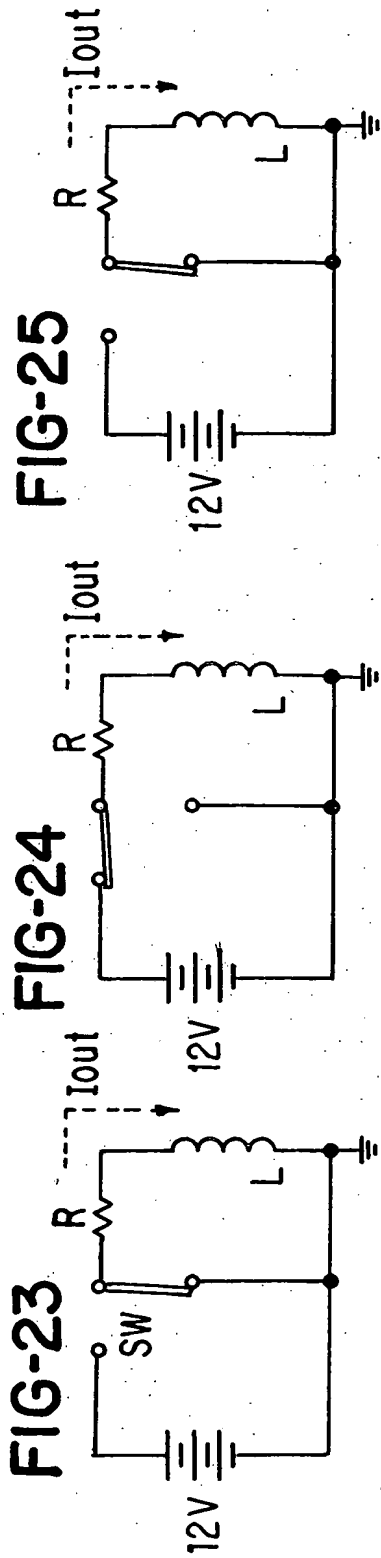
**FIG-19 (PRIOR ART)**

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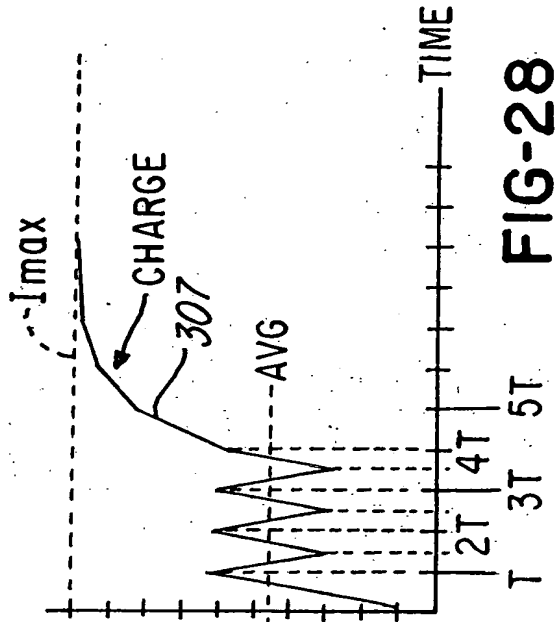
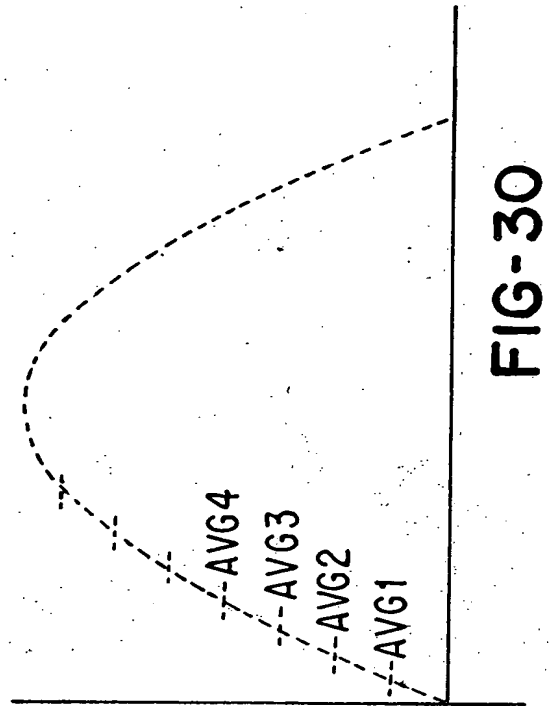
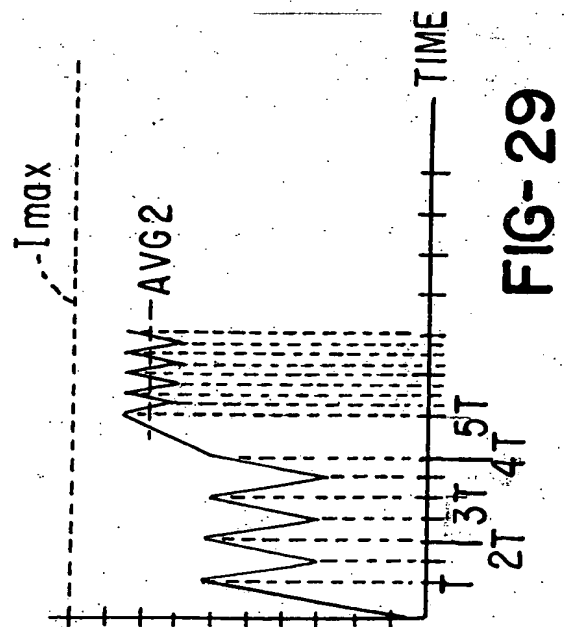
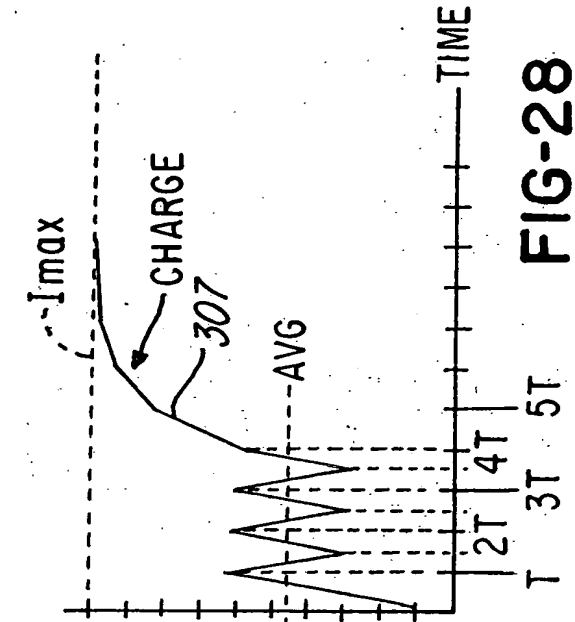
FIG-22



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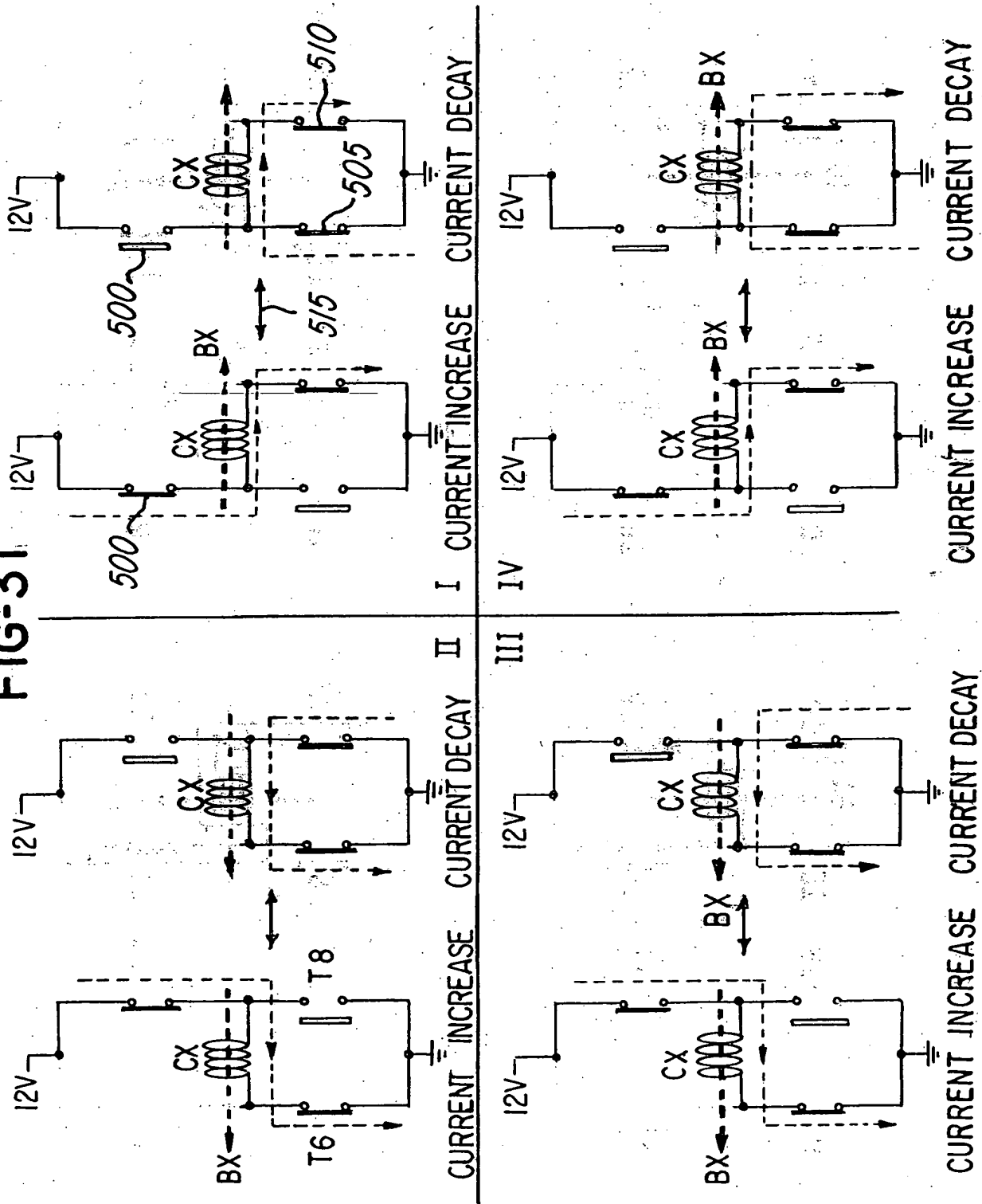


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FIG-31



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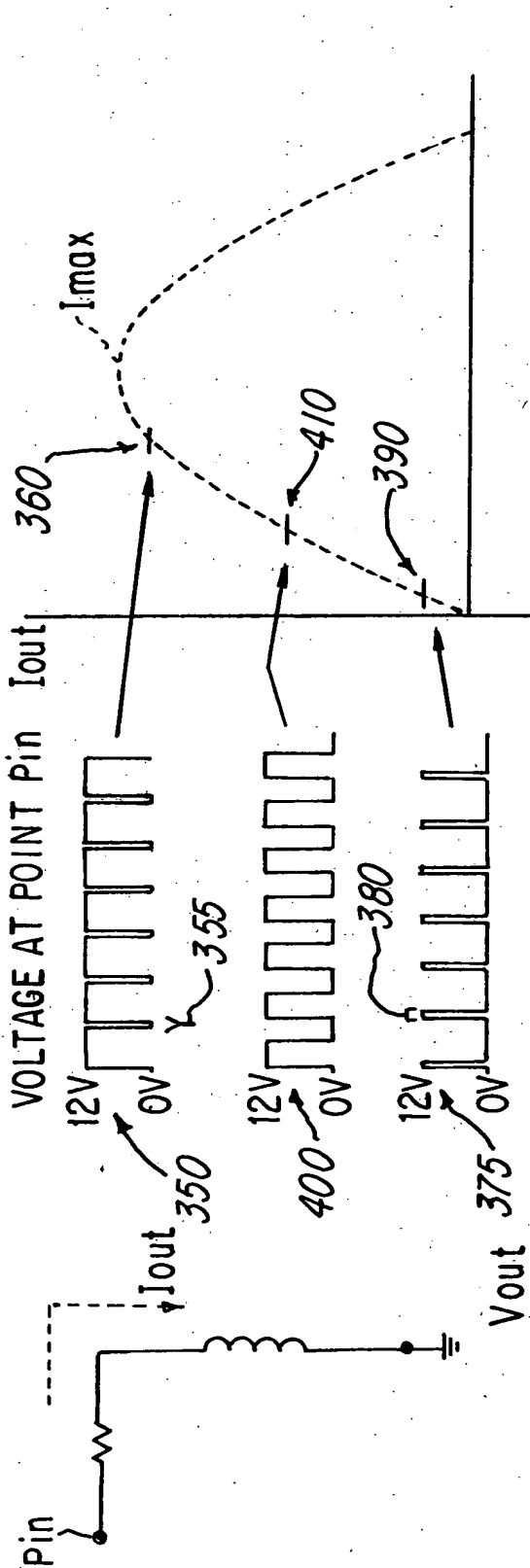


FIG-32

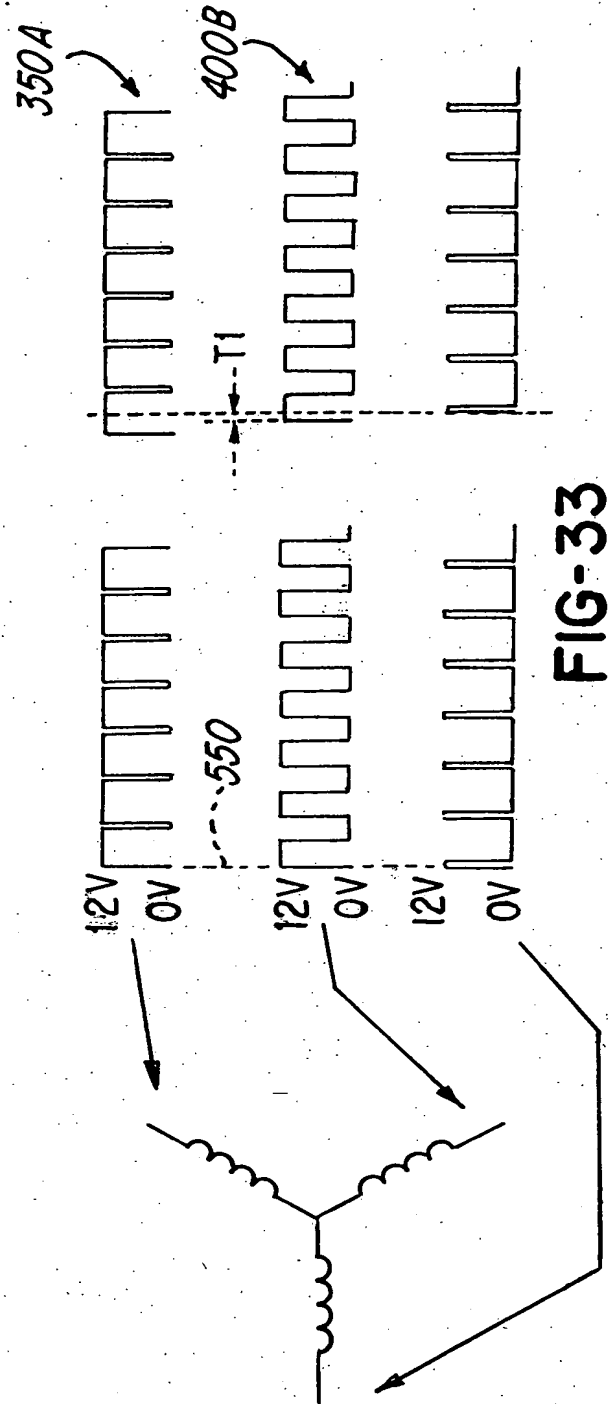


FIG-33

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FIG - 35

MOTOR TYPE	PHASES	COMMUTATION	CONTROL
BRUSH DC MOTOR	3 SLOTS	MECHANICAL	OPEN LOOP
PERMANENT MAGNET	4 SLOTS		VOLTAGE
SERIES WOUND FIELD	...		CURRENT
SHUNT WOUND FIELD	N slots		FIELD CONTROL
COMPOUND WOUND FIELD			
SWITCHED RELUCTANCE MOTOR	1	CURRENT REGULATED	OPEN LOOP
	2	VOLTAGE REGULATED	VOLTAGE
	3		CURRENT
	4		PHASE ANGLE
	n		
INDUCTION MOTOR	1	SINUSOIDAL SPACE VECTOR	OPEN LOOP
	2	TRIANGLE - SINE	CONSTANT V/HZ
	3		FOC
	n		
PIEZOELECTRIC MOTOR			
BRUSHLESS DC	2	SINE	FOC

INVENTION